

### LISTING OF CLAIMS

This listing of claims will replace all previous listings in the application:

1. (currently amended) An evaporation system comprising an evaporator heated by process waste steam and a process stage heated by product vapors of the evaporator, ~~in particular at least one further evaporator,~~ wherein a vapor compression stage is connected to the product vapor exit of the evaporator, which compression stage lowers the dew point of the evaporator below the temperature value required for heating the process stage and, by compression of the product vapor, raises it the temperature of the product vapor to the temperature value required for heating the process stage.
2. (previously presented) The evaporation system as claimed in claim 1, wherein the process waste steam is saturated process steam.
3. (previously presented) The evaporation system as claimed in claim 2, wherein the saturated process steam is generated without condensation from superheated process waste steam by supplying water or condensate.
4. (previously presented) The evaporation system as claimed in claim 3, wherein for the condensation-free conversion of the superheated process waste steam into saturated and purified process steam, a wet washer which purifies the superheated process waste steam is provided.

5. (previously presented) The evaporation system as claimed in claim 4, wherein a delivery pump, in particular in the form of a fan, is arranged at a point in the process steam route from the drier, via the wet washer, the heating space of the evaporator, a waste steam line and a waste steam chimney.
6. (previously presented) The evaporation system as claimed in claim 4, wherein condensate from at least one of the evaporators can be fed to the wet washer for the saturation and purification of the superheated process waste steam.
7. (previously presented) The evaporation system as claimed in claim 1, wherein the compression stage is in the form of a mechanical vapor compression stage.